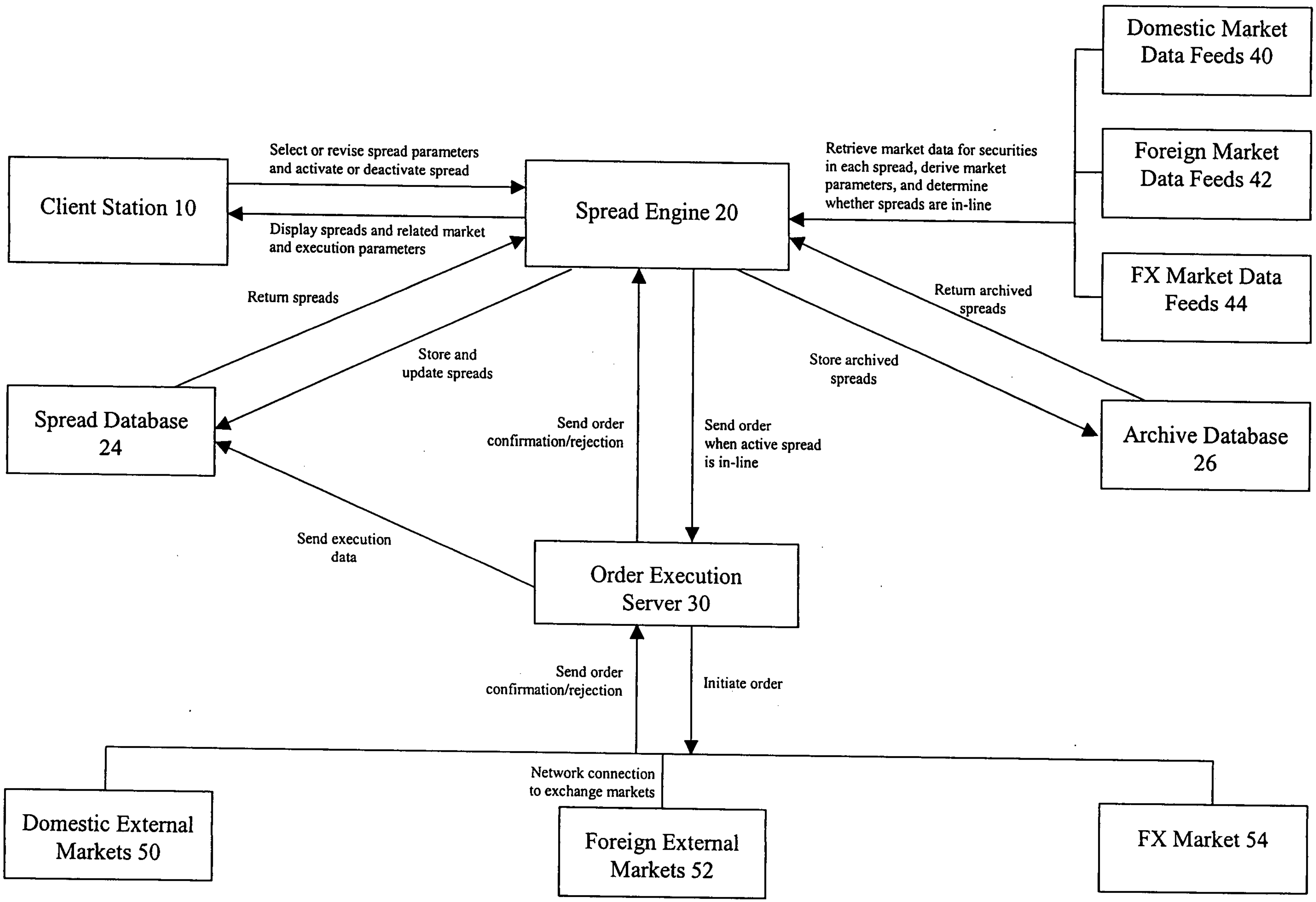

Domestic Market Data Feeds 40
Foreign Market Data Feeds 42
FX Market Data Feeds 44
Client Station 10
Select or revise spread parameters and activate or deactivate spread
Display spreads and related market and execution parameters
Spread Engine 20
Retrieve market data for securities in each spread, derive market parameters, and determine whether spreads are in-line
Return spreads
Store and update spreads
Return archived spreads
Store archived spreads
Spread Database 24
Archive Database 26
Send order confirmation/rejection
Send order when active spread is in-line
Send execution data
Order Execution Server 30
Send order confirmation/rejection
Initiate order
Network connection to exchange markets
Domestic External Markets 50
Foreign External Markets 52
FX Market 54

Fig. 1

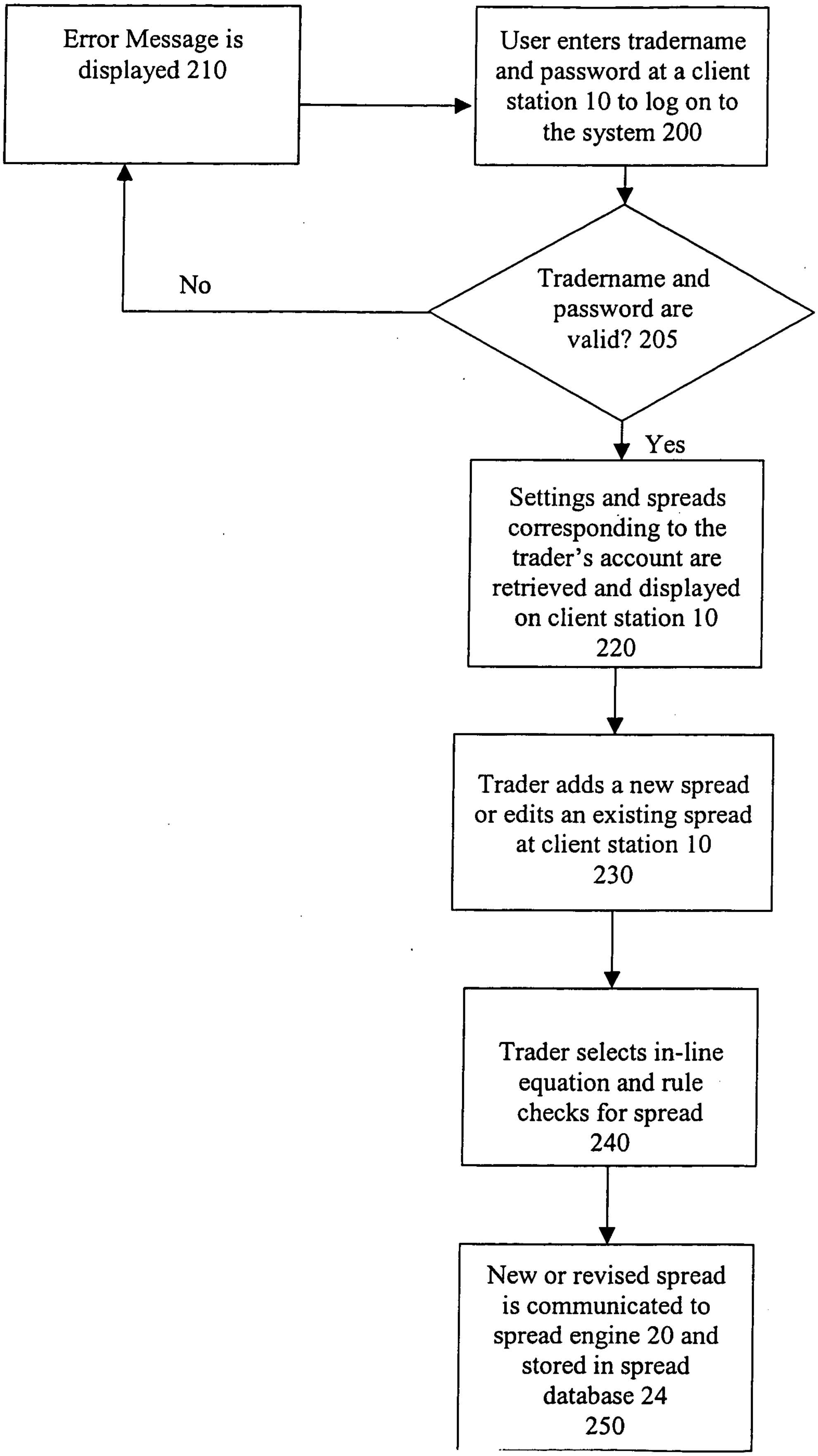
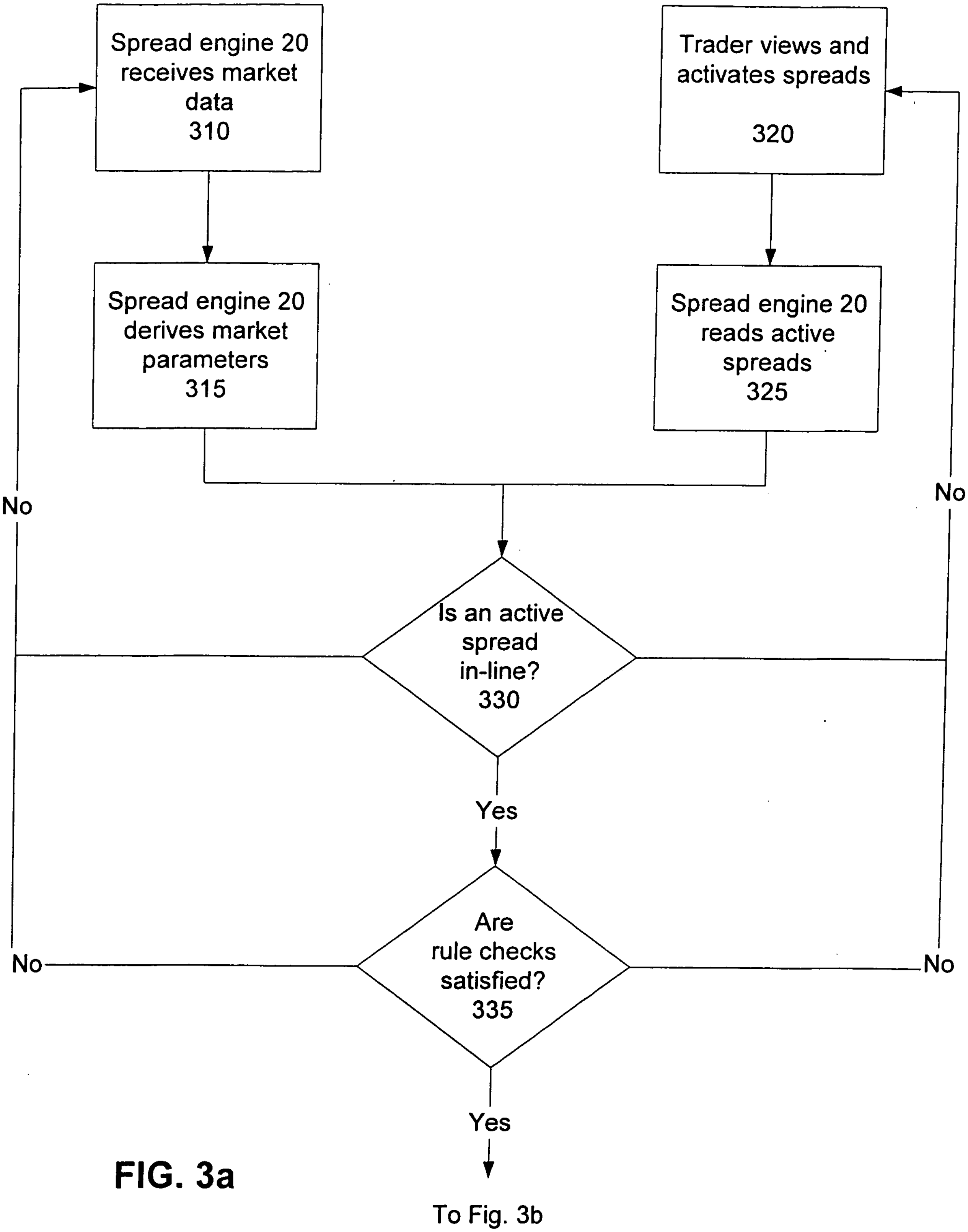

Error Message is displayed 210
User enters tradename and password at a client station 10 to log on to the system 200
Tradename and password are valid? 205
No
Yes
Settings and spreads corresponding to the trader's account are retrieved and displayed on client station 10 220
Trader adds a new spread or edits an existing spread at client station 10 230
Trader selects in-line equation and rule checks for spread 240
New or revised spread is communicated to spread engine 20 and stored in spread database 24 250

Fig. 2



Spread engine 20 receives market data 310
Trader views and activates spreads 320
Spread engine 20 derives market parameters 315
Spread engine 20 reads active spreads 325
Is an active spread in-line? 330
Yes
Are rule checks satisfied? 335
No
No
No
No
Yes
To Fig. 3b

FIG. 3a

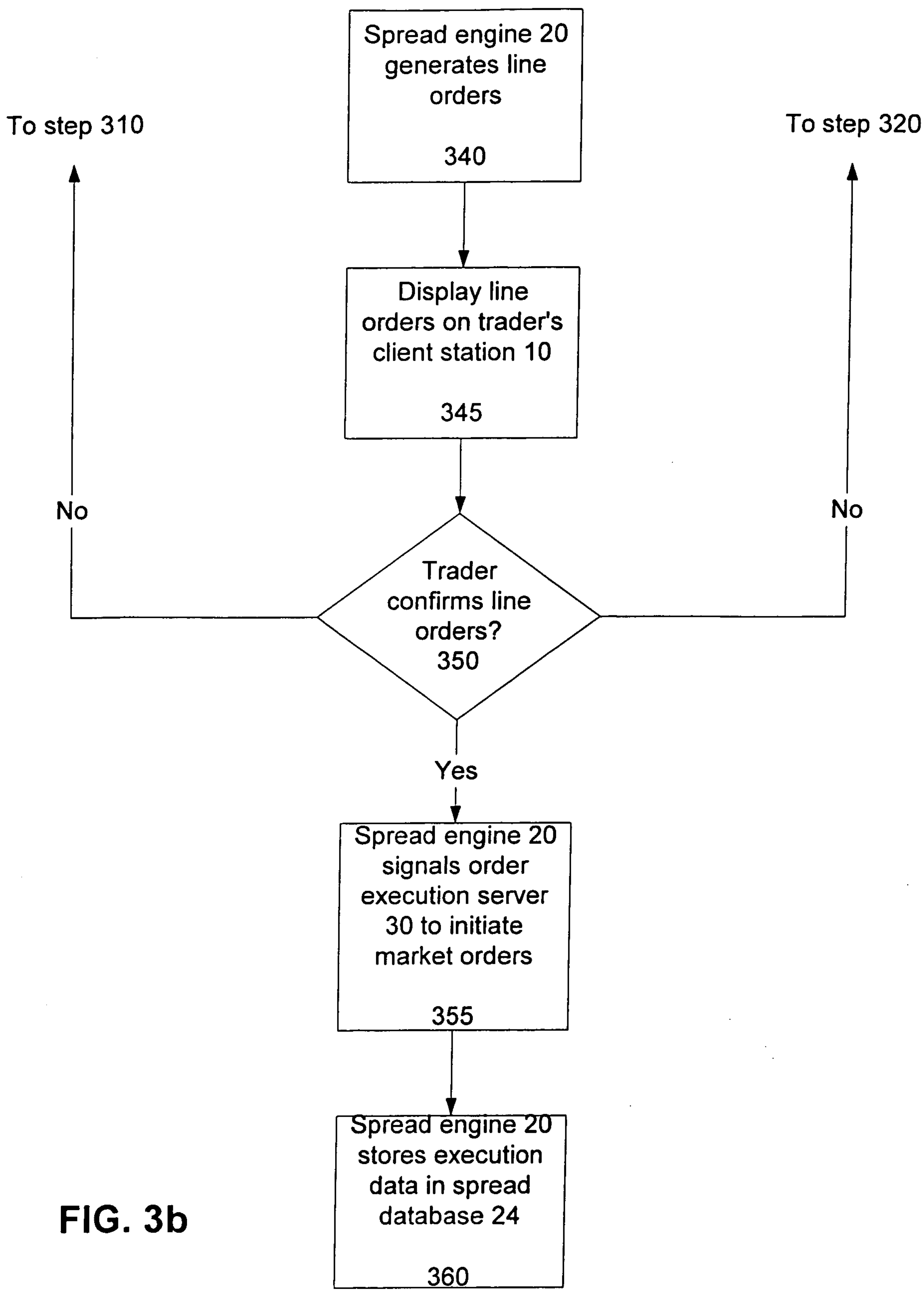

Spread engine 20 generates line orders
340
To step 310
To step 320
Display line orders on trader's client station 10
345
No
No
Trader confirms line orders?
350
Yes
Spread engine 20 signals order execution server 30 to initiate market orders
355
Spread engine 20 stores execution data in spread database 24
360

FIG. 3b

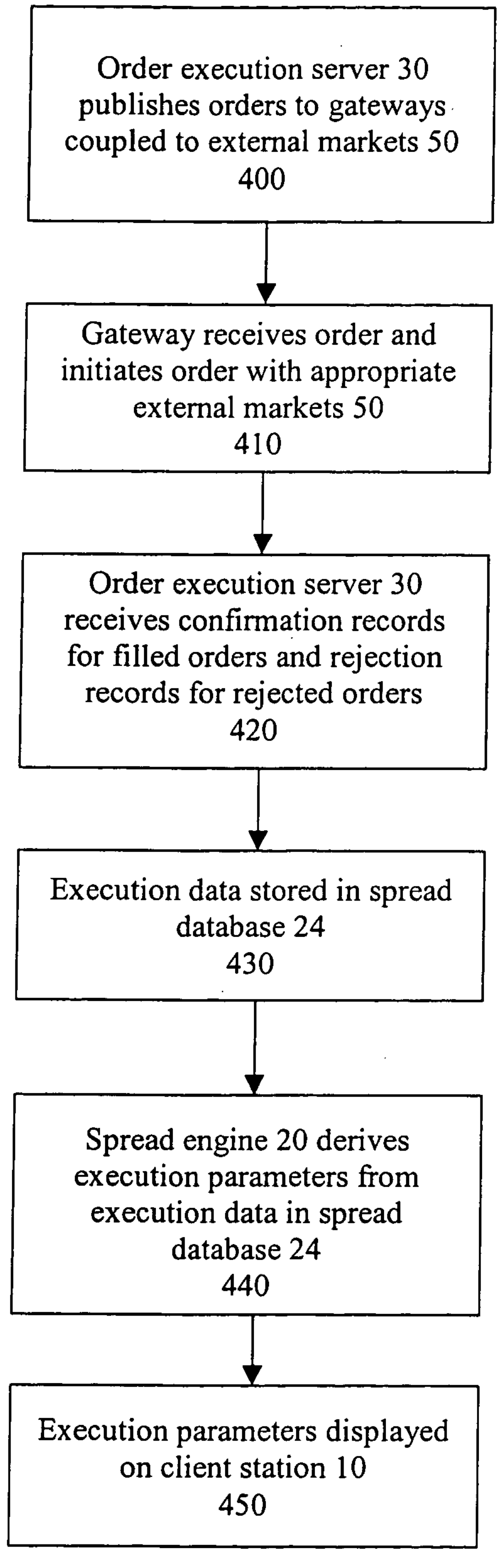

Order execution server 30 publishes orders to gateways coupled to external markets 50
400
Gateway receives order and initiates order with appropriate external markets 50
410
Order execution server 30 receives confirmation records for filled orders and rejection records for rejected orders
420
Execution data stored in spread database 24
430
Spread engine 20 derives execution parameters from execution data in spread database 24
440
Execution parameters displayed on client station 10
450

Fig. 4

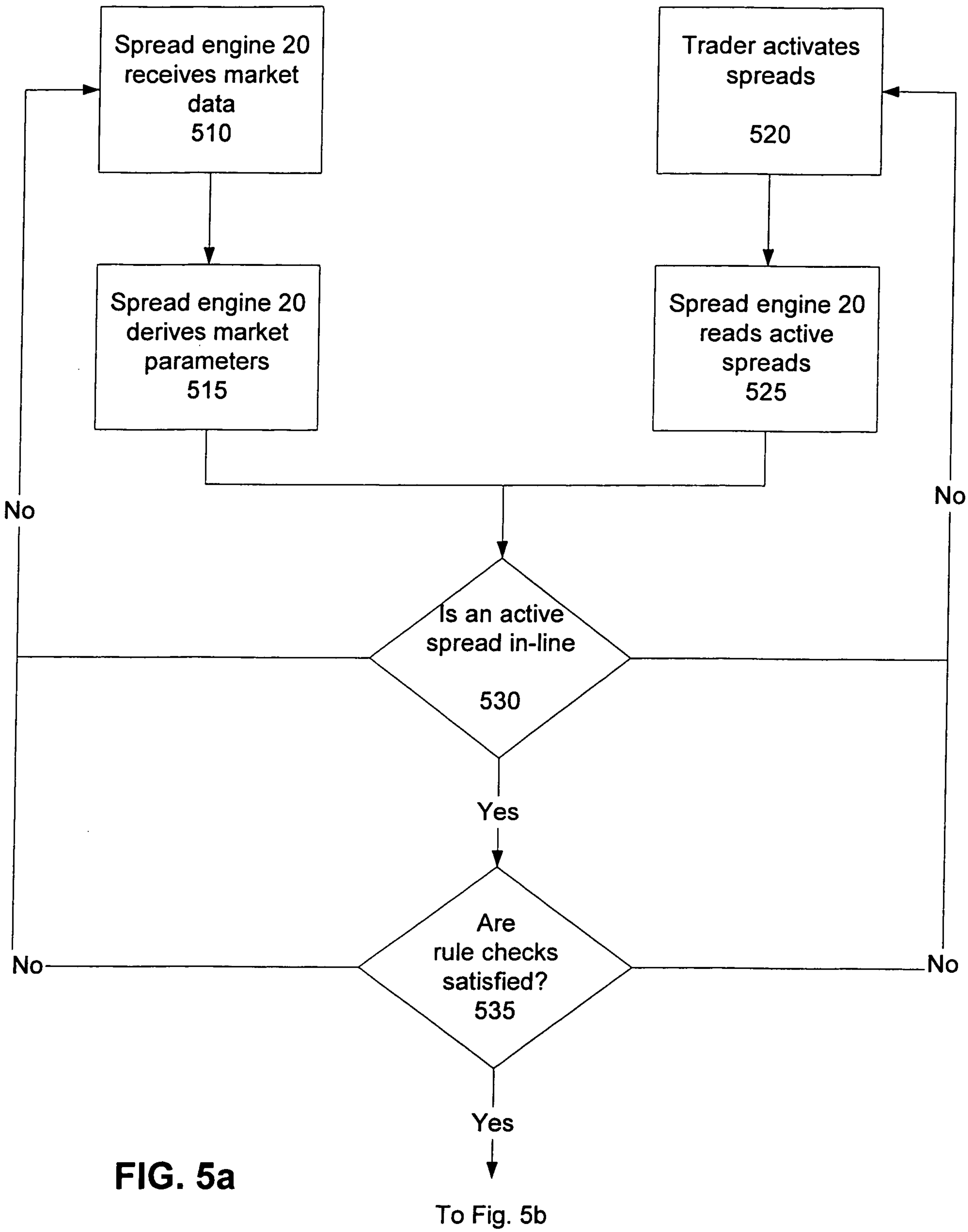

Spread engine 20 receives market data 510
Trader activates spreads 520
Spread engine 20 derives market parameters 515
Spread engine 20 reads active spreads 525
Is an active spread in-line 530
Are rule checks satisfied? 535
Yes
No
No
No
No
Yes
To Fig. 5b

FIG. 5a

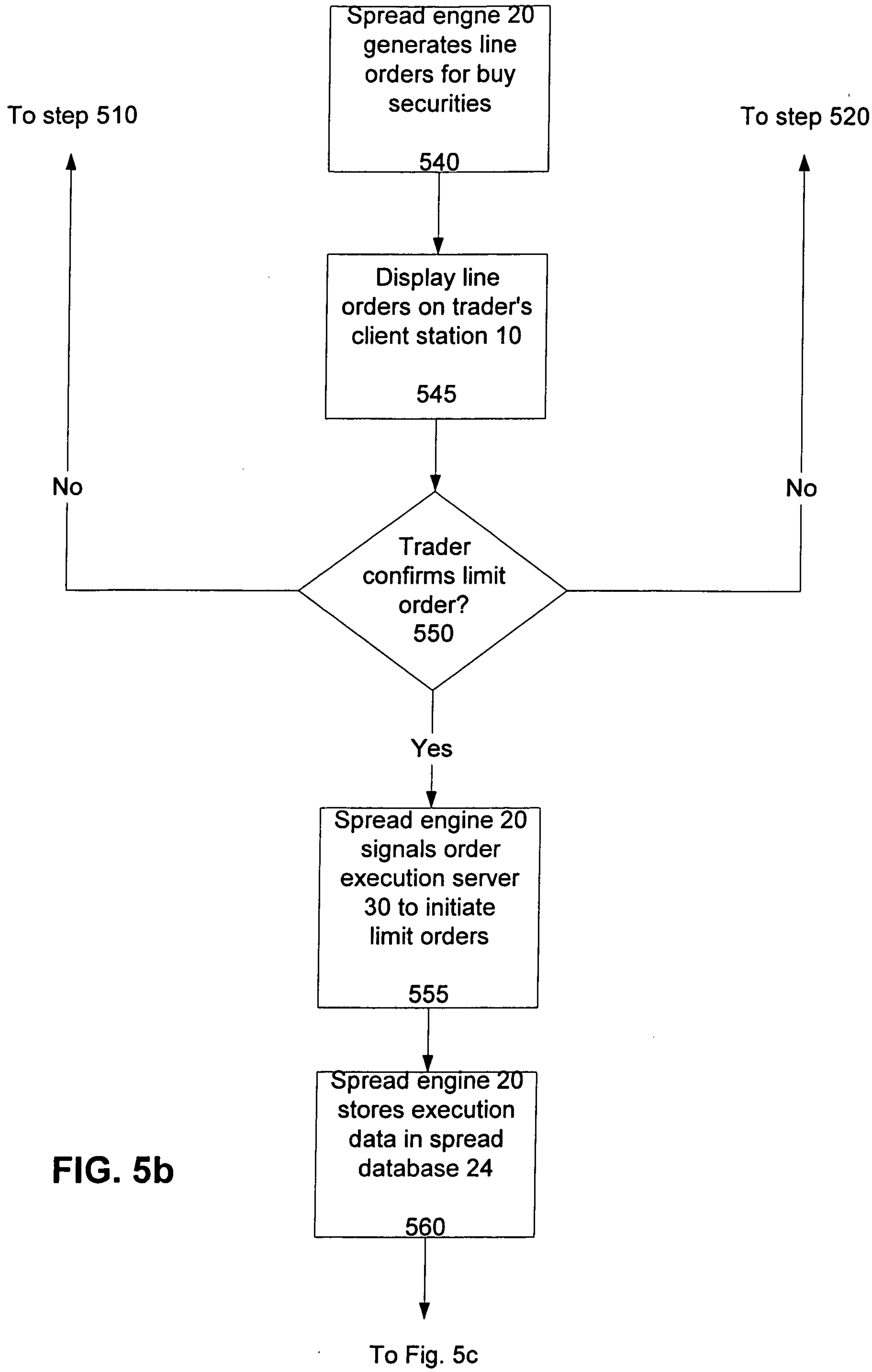

Spread engne 20 generates line orders for buy securities
540
To step 510
To step 520
Display line orders on trader's client station 10
545
No
No
Trader confirms limit order?
550
Yes
Spread engine 20 signals order execution server 30 to initiate limit orders
555
Spread engine 20 stores execution data in spread database 24
560
To Fig. 5c

FIG. 5b

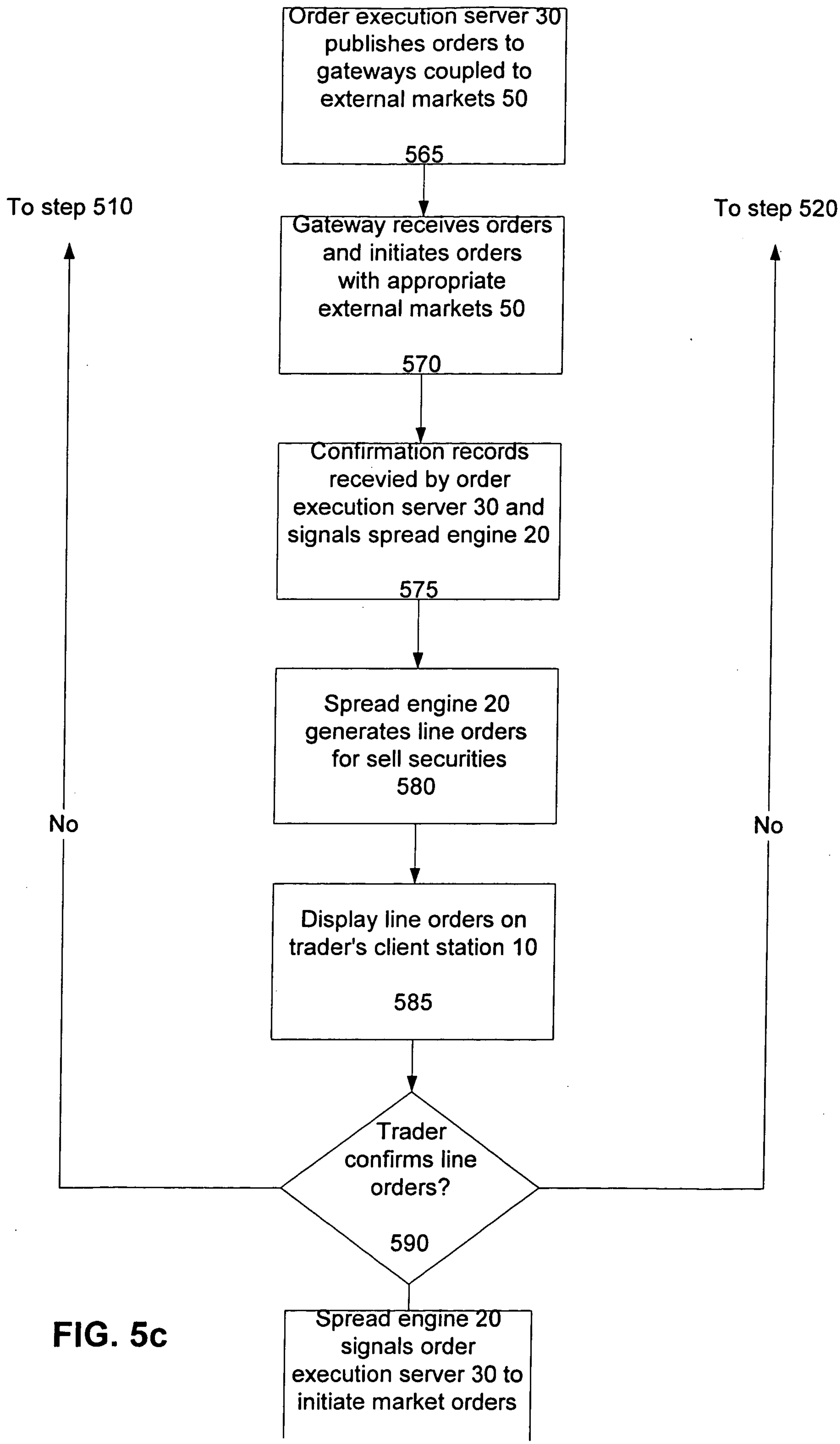

Order execution server 30 publishes orders to gateways coupled to external markets 50
565
Gateway receives orders and initiates orders with appropriate external markets 50
570
Confirmation records recevied by order execution server 30 and signals spread engine 20
575
Spread engine 20 generates line orders for sell securities
580
Display line orders on trader's client station 10
585
Trader confirms line orders?
590
Spread engine 20 signals order execution server 30 to initiate market orders
To step 510
To step 520
No
No

FIG. 5c

70

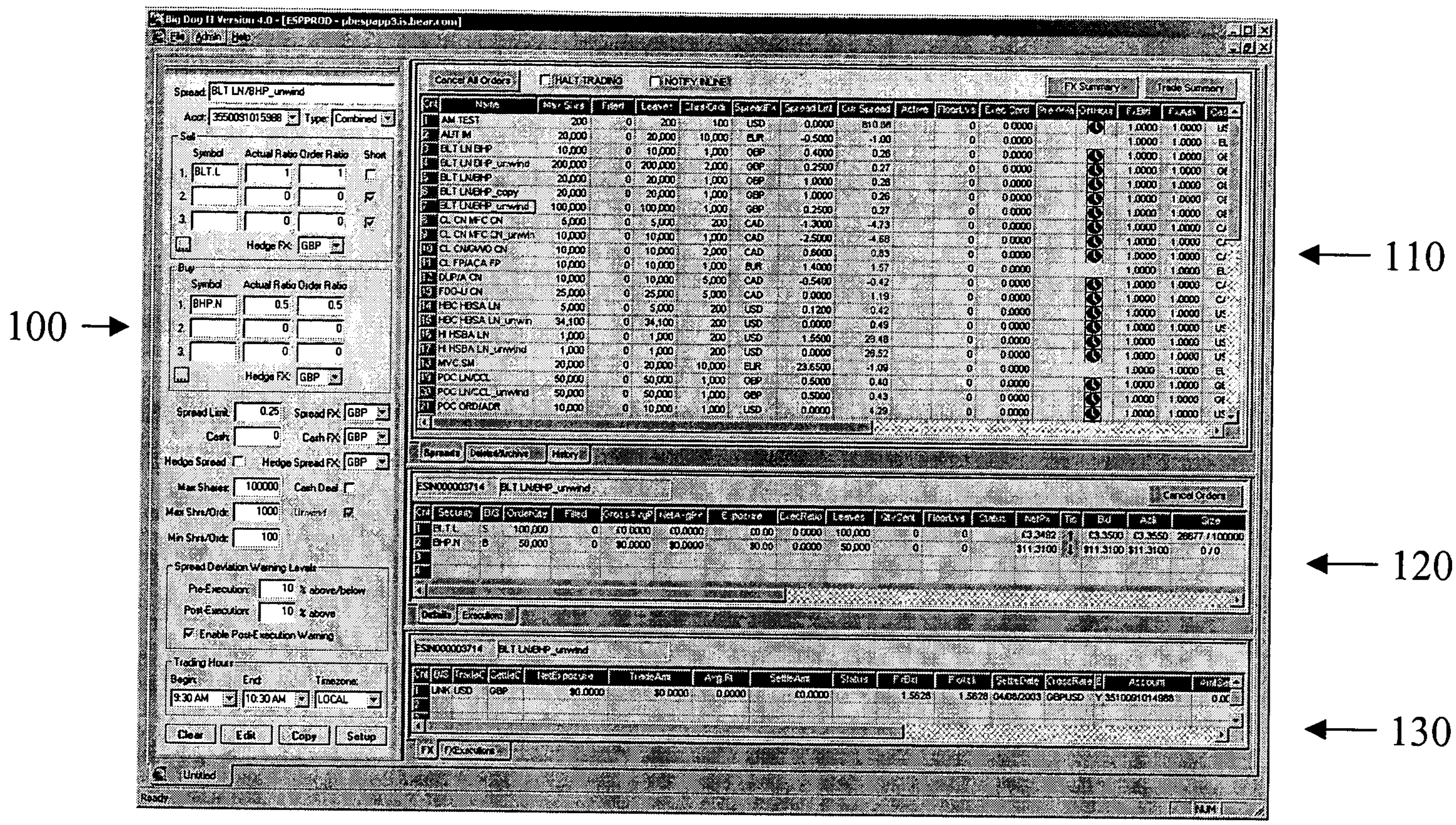

100
110
120
130
Cancel All Orders
HALT TRADING
NOTIFY INLINE
FX Summary
Trade Summary
Cancel Orders
Clear
Edit
Copy
Setup

Fig. 6

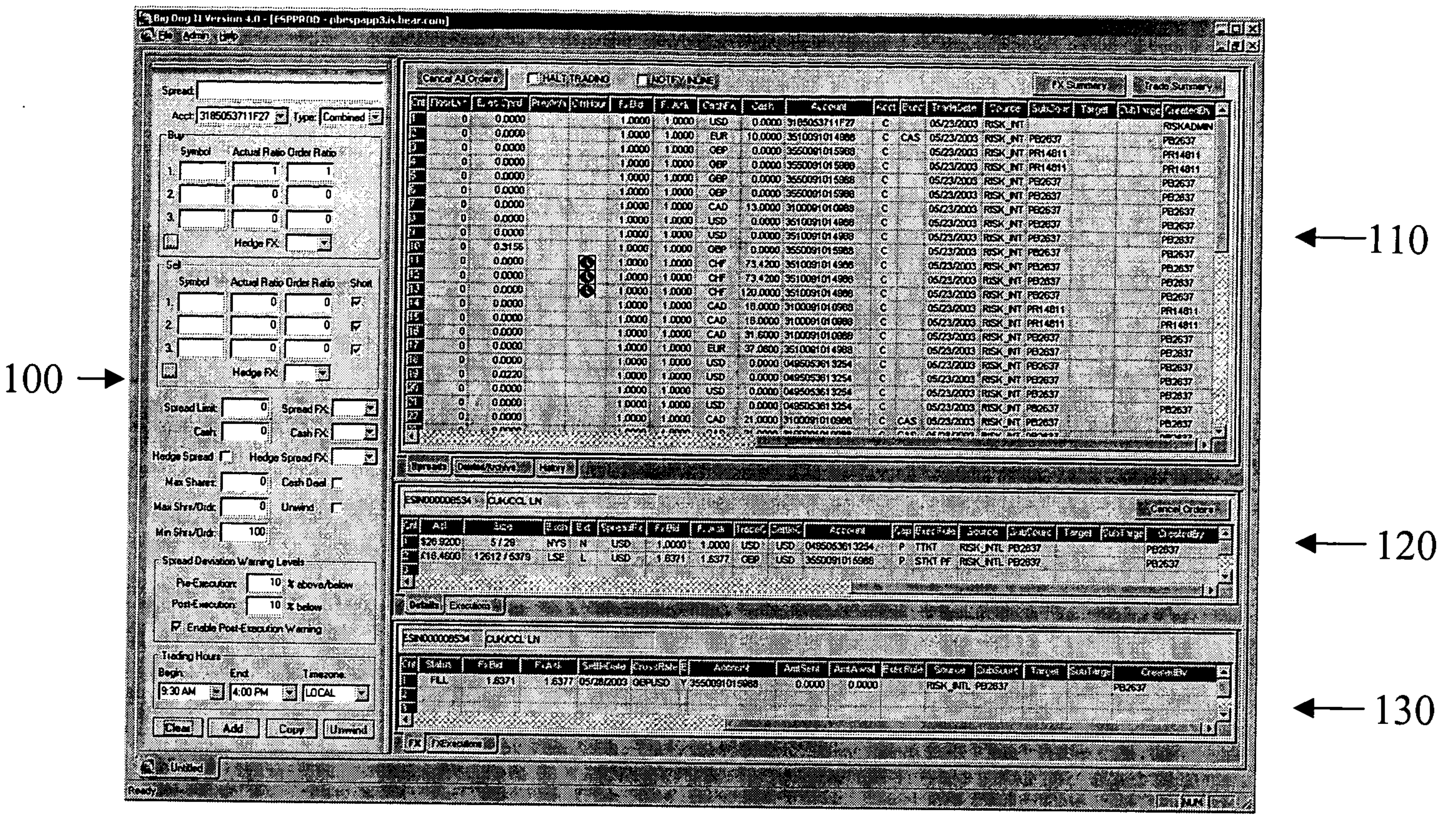


Fig. 7

800

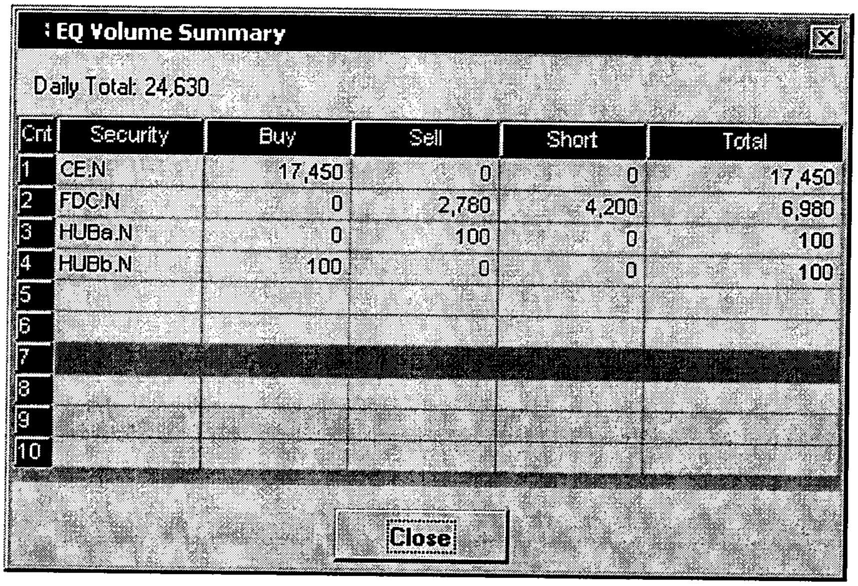


Fig. 8

900

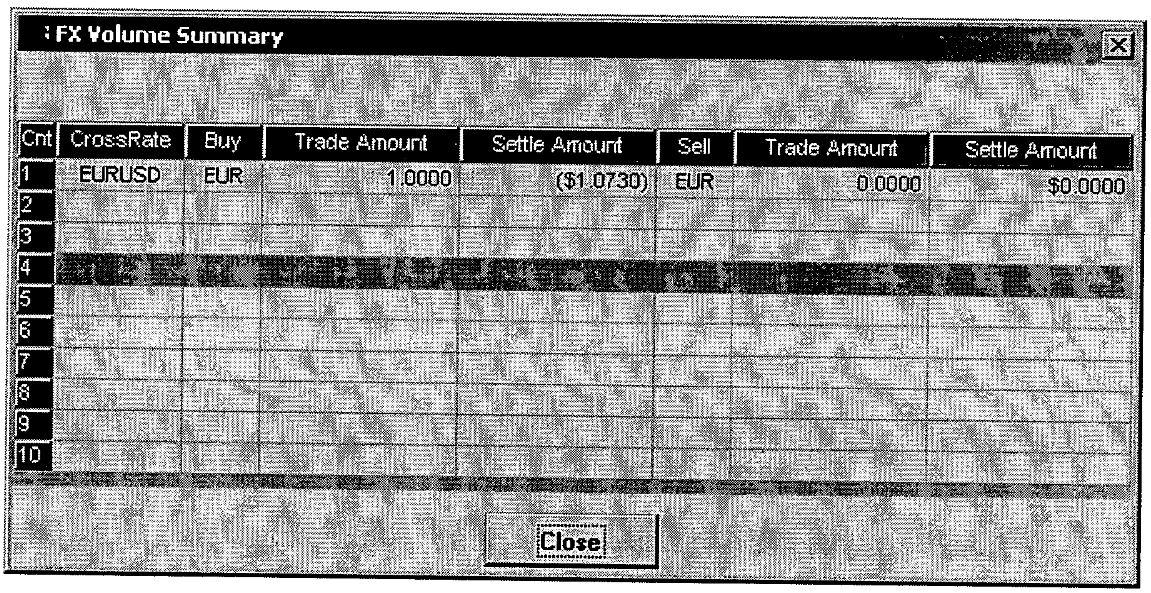
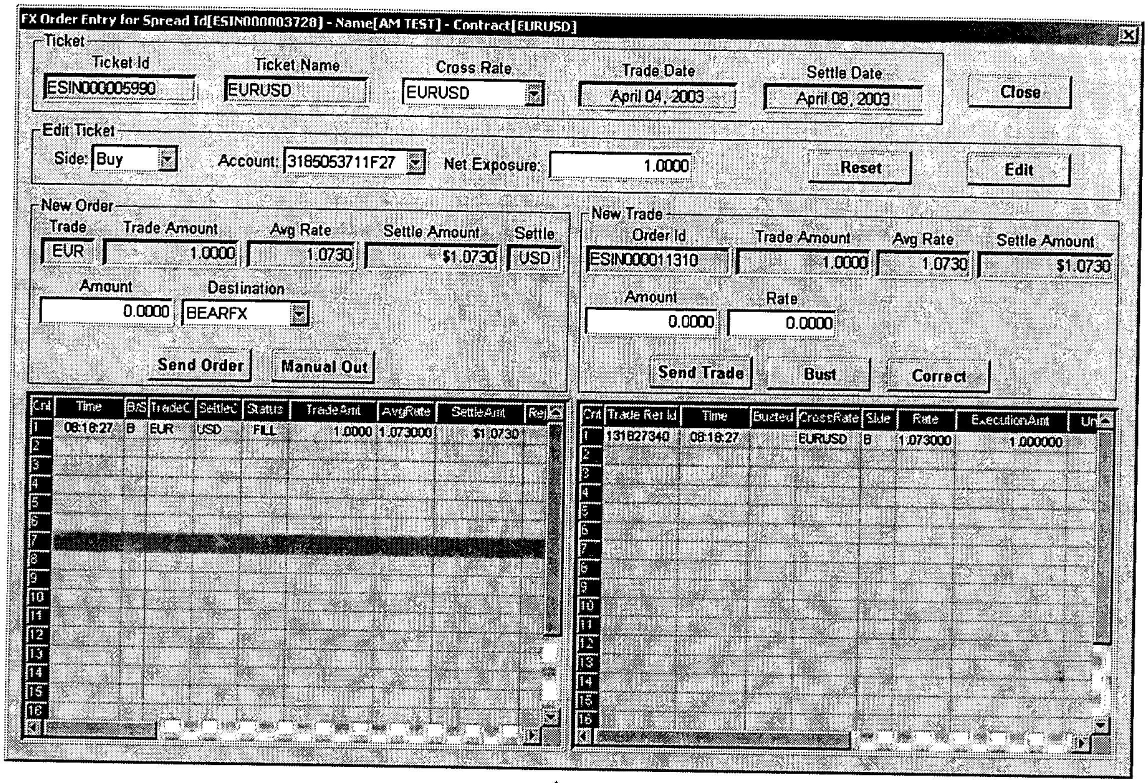
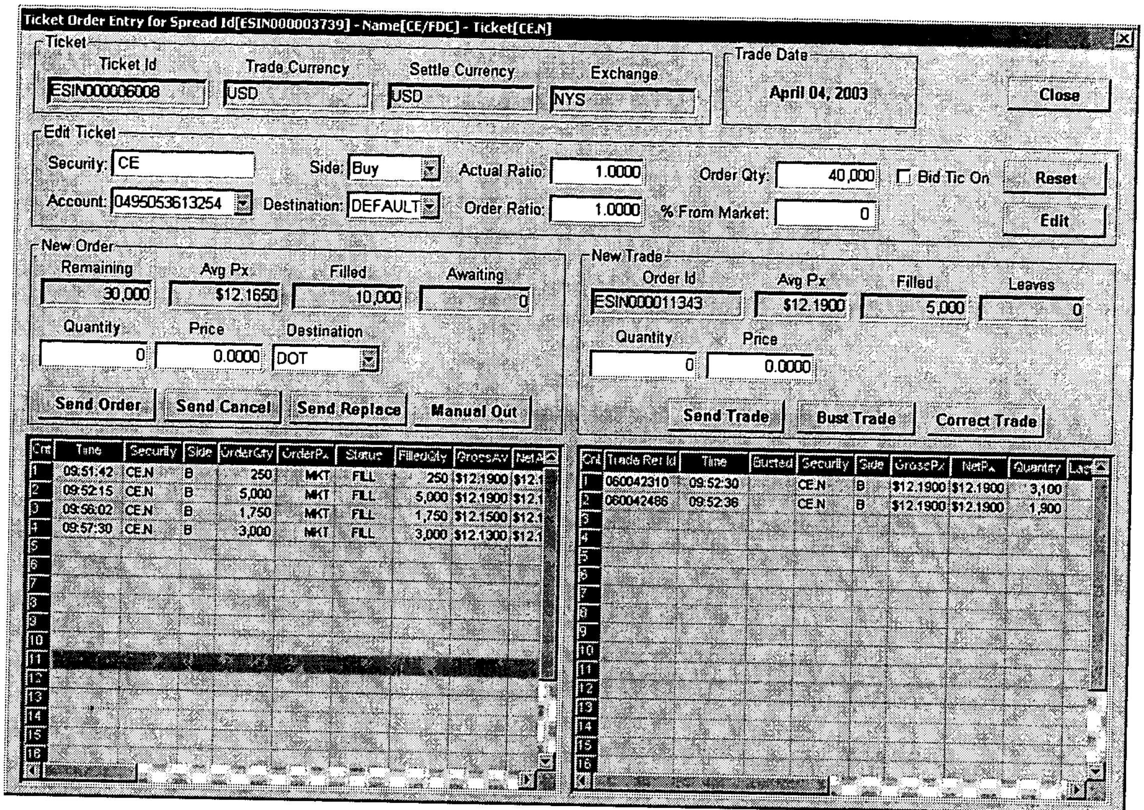


Fig. 9


FX Order Entry for Spread Id[ESIN000003728] - Name[AM TEST] - Contract[EURUSD]
Ticket
Ticket Id
ESIN000005990
Ticket Name
EURUSD
Cross Rate
EURUSD
Trade Date
April 04, 2003
Settle Date
April 08, 2003
Close
Edit Ticket
Side: Buy
Account: 3185053711F27
Net Exposure: 1.0000
Reset
Edit
New Order
Trade
EUR
Trade Amount
1.0000
Avg Rate
1.0730
Settle Amount
$1.0730
Settle
USD
Amount
0.0000
Destination
BEARFX
Send Order
Manual Out
New Trade
Order Id
ESIN000011310
Trade Amount
1.0000
Avg Rate
1.0730
Settle Amount
$1.0730
Amount
0.0000
Rate
0.0000
Send Trade
Bust
Correct
Time
B/S
Status
TradeAmt
AvgRate
SettleAmt
08:18:27
B
EUR
USD
FILL
1.0000
1.073000
$1.0730
Trade Ref Id
Time
Busted
CrossRate
Side
Rate
ExecutionAmt
131827340
08:18:27
EURUSD
B
1.073000
1.000000

1000

Fig. 10



Cnt	Time	Security	Side	OrderQty	OrderPx	Status	FilledQty	GrossAv	NetA
1	09:51:42	CE.N	B	250	MKT	FILL	250	$12.1900	$12.1
2	09:52:15	CE.N	B	5,000	MKT	FILL	5,000	$12.1900	$12.1
3	09:56:02	CE.N	B	1,750	MKT	FILL	1,750	$12.1500	$12.1
4	09:57:30	CE.N	B	3,000	MKT	FILL	3,000	$12.1300	$12.1

Cnt	Trade Ref Id	Time	Busted	Security	Side	GrossPx	NetPx	Quantity	Las
1	060042310	09:52:30		CE.N	B	$12.1900	$12.1900	3,100	
2	060042486	09:52:36		CE.N	B	$12.1900	$12.1900	1,900	

1100

Fig. 11